

TRANSACTION REPORT

P. 01

JAN-16-97 THU 03:32 PM

SEND (M)

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-16	03:31 PM	5386016	57"	1	SEND	(M) OK	031	
TOTAL			57S		PAGES:	1		

Summo I

Post-it® Fax Note	7671	Date	1/16	# of pages	▶ 1
To	Lynn Jackson	From	Wayne Hedberg		
Co./Dept.	BLM-MOAB	Co.	DOG M		
Phone #		Phone #	801-538-5286		
Fax #	801-259-2106	Fax #	801-359-3940		

A joint agency meeting was conducted in Salt Lake City on January 15, 1997 involving members of the Bureau of I Oil, Gas and Mining. The p requirements to allow us to The following items were a bond estimate:

Post-it® Fax Note	7671	Date	1/16/97	# of pages	▶ 1
To	Ferry McParland	From	Wayne Hedberg		
Co./Dept.	BLM-Minerals	Co.	DOG M		
Phone #		Phone #			
Fax #	539-4200	Fax #	359-3940		

1. Plugging/reclamatio area wells, 6 down Assume 500 ft dep number of pit dew: reclamation costs r the cost to backfill mobilization cost f

Post-it® Fax Note	7671	Date	1/16/97	# of pages	▶ 1
To	Pat Gochinour	From	Wayne Hedberg		
Co./Dept.	Gochinour & Assoc.	Co.	DOG M		
Phone #		Phone #	(801) 538-5286		
Fax #	(303) 721-9298	Fax #	(801) 359-3940		

2. Cost for constructing soil - bottom to top).

Post-it® Fax Note	7671	Date	1/16	# of pages	▶ 1
To	Dennis Frederick	From	Wayne Hedberg		
Co./Dept.	DWQ	Co.	DOG M		
Phone #	* List sent to Summo	Phone #	538-5286		
Fax #	538-6016	Fax #	359-3940		

TRANSACTION REPORT

P. 01

JAN-16-97 THU 03:30 PM

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DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-16	03:28 PM	13037219298	46"	1	SEND	(M) OK	030	
TOTAL						46S PAGES:	1	

Remaining Bond Estimate Concerns
 Summo USA Corporation - Lisbon Valley Copper Project
 M/037/088
 (Prepared January 16, 1997)

A joint agency meeting was conducted in Salt Lake City on January 15, 1997 involving staff members of the Bureau of Land Management, the Division of Water Quality, and the Division of Oil, Gas and Mining. The purpose of the meeting was to discuss final closure and reclamation requirements to allow us to determine a final bond amount and finalize the EIS for this project. The following items were agreed upon as necessary line items to be included in the reclamation bond estimate:

1. Plugging/reclamation costs for approximately 11 monitoring wells (5 process facilities area wells, 6 downgradient pit wells) plus the two existing wells 94MW4 and MW96-7. Assume 500 ft depth for process area wells, assume 1200 ft depth for pit wells. Projected number of pit dewatering wells remaining upon mine closure and the associated reclamation costs must also be provided. Include average well depth and diameter, and the cost to backfill all holes with cement from bottom to top. Also include anticipated mobilization cost for drilling rig to close holes.
2. Cost for constructing final heap cap design (12" of clay, 24" of crushed rock, and 12" of soil - bottom to top).

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*                               P. 01                               *
*                               TRANSACTION REPORT                   *
*                               JAN-16-97 THU 03:18 PM              *
*                               SEND (M)                           *
* DATE  START  RECEIVER  TX TIME  PAGES  TYPE  NOTE  M#  DP *
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* JAN-16 03:16 PM 18012592106 1'14"  1  SEND  ( M) OK  029 *
*-----*-----*-----*-----*-----*-----*-----*
*                               TOTAL  1M 14S  PAGES:  1          *
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Remaining Bond Estimate Concerns
Summo USA Corporation - Lisbon Valley Copper Project
M/037/088
(Prepared January 16, 1997)

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2. Cost for constructing final heap cap design (12" of clay, 24" of crushed rock, and 12" of soil - bottom to top).
3. Describe the proposed methodology for handling residual leach pad rinsate water following final draindown of heaps. Estimate the volume to be handled and calculate cost of disposing of same (eg., evaporation, pump/treat and discharge, land apply, etc.).
4. Describe the sequencing for the final rinsing of the heap. How much of the heap will still need to be rinsed upon mine closure (25%, 50%, more??)? How many pore volumes of water will be needed to effectively neutralize same? If chemical neutralizing agents are anticipated include these costs as well. Provide cost estimates based upon the projected final rinsing plan. Assume a minimum to 2 pore volumes.
5. Calculate continued well monitoring costs for a minimum of 5 years following closure of the mine. This will involve a minimum of the 11 monitoring wells (see #1 above) at a sampling frequency of twice per year. Estimate an average analytical cost of \$500/sample.
(eg., 11 wells X 2 samples/yr. X 5 yrs. X \$500/sample = @\$55,000).
6. Add a line item to the bond estimate to account for analytical testing and disposal costs for the residual process pond sludges. Assignment of anticipated costs for this item will be deferred to a later date when more detailed information becomes available.

Based on our meeting January 15, 1997 the following bonding issue need to be addressed:

1. The rinsing cost of the heap leach is low. Based on the array information available to the State and BLM, the heap leach pad mining sequence is not clear. Summo needs to provide a clear description of the leaching and rinsing sequence and the cost of rinsing the heap leach pad needs to be re-evaluated.

2. The disposal and volume of the water remaining after rinsing is ^{not} complete ^{is} ~~is not~~ addressed. The proposed disposal method and associated cost should be added as a line item to the bond calculation.

3. The number of dewatering wells, diameter, and depth that will have to be reclaimed at the end of mine life must be added to the bond calculation.

4. Based on discussions with the State, we anticipate 5 leach pad monitoring wells and 6 post mining pit groundwater monitoring wells. These holes, in addition to existing wells 94MW4 and MW96-7, will need to be reclaimed. A cost estimate line items needs to be added to the bond calculation. Assume the leach pad monitoring wells would be 500 feet in depth and the pit monitoring wells 1200 feet in depth.

5. In ^{consultation} consultation with the State, we have determined that the heap leach cover will be: (top to bottom) 12 inches of soil, 24 inches of crushed rock, and 12 inches of clay.

Based on the present information provided to us, we have assumed these requirements base on a reasonable worst case scenario.

Post-It™ brand fax transmittal memo 7671 # of pages ▶ 1

To <i>Wayne Hedberg</i>	From <i>Jerry McFarland</i>
Co.	Co.
Dept.	Phone #
Fax #	Fax #

DESCRIPTION	QTY	UNIT	SUB/CONT	SUBTOTAL	PERCENT FEDERAL	SUBTOTAL	AMOUNT ALLOWED
Waste Dump A--190 Acres							
Area of Top	456,444.0	SY					
Area of Slope	462,680.0	SY					
Scarify Top (Flat) Area	456,444.0	SY	\$0.20	\$91,289			
12 Inches Soil on Top of Dump	152,148.0	CY	\$1.25	\$190,185			
12 Inches Soil on Slope	154,227.0	CY	\$1.25	\$192,784			
Seed Entire Surface	190.0	Acres	\$174.00	\$33,060			
				\$507,318	57.00%	\$289,171	\$289,171
Waste Dump B--94 Acres							
Area of Top	197,222.0	SY					
Area of Slope	258,240.0	SY					
Scarify Top (Flat) Area	197,222.0	SY	\$0.20	\$39,444			
12 Inches Soil on Top of Dump	65,741.0	CY	\$1.25	\$82,176			
12 Inches Soil on Slope	86,080.0	CY	\$1.25	\$107,600			
Seed Entire Surface	94.0	Acres	\$174.00	\$16,356			
				\$245,577	0.00%	\$0	\$0
Waste Dump C--120 Acres							
Area of Top	344,222.0	SY					
Area of Slope	238,633.0	SY					
Scarify Top (Flat) Area	344,222.0	SY	\$0.20	\$68,844			
12 Inches Soil on Top of Dump	114,741.0	CY	\$1.25	\$143,426			
12 Inches Soil on Slope	79,544.0	CY	\$1.25	\$99,430			
Seed Entire Surface	120.0	Acres	\$174.00	\$20,880			
				\$332,581	100.00%	\$332,581	\$332,581
Leach Pad--254 Acres							
Rinse Heap Leach Area 1 Year	1.0	YR		\$20,085			
Area of Top	788,566.0	SY					
Area of Slope	441,653.0	SY					
12 Inches Clay Cap on Top	262,852.0	CY	\$2.50	\$657,130			
12 Inches Clay Cap on Slope	147,218.0	CY	\$2.50	\$368,045			
36 Inches Crushed Rock on Top	262,852.0	CY	\$2.50	\$1,971,390			
36 Inches Crushed Rock on Slope	147,218.0	CY	\$2.50	\$1,104,135			
12 Inches Soil on Top	262,852.0	CY	\$1.25	\$328,565			
12 Inches Soil on Slope	147,218.0	CY	\$1.25	\$184,023			
Seed Entire Surface	254.0	Acres	\$174.00	\$44,196			
				\$4,677,579	21.00%	\$982,291	\$982,291
				Subtotal		\$1,604,043	
Pond Area--11 Acres							
Raffinate Pond-12 Inches Soil	4,852.0	CY	\$1.25	\$6,065			
PLS Pond--12 Inches Soil	4,852.0	CY	\$1.25	\$6,065			
Water Runoff Pond--12 Inches Soil	8,229.0	CY	\$1.25	\$10,286			
Seed 3 Pond Areas	11.0	Acres	\$174.00	\$1,914			
				\$24,330	0.00%	\$0	\$0

DRAIN

DESCRIPTION	QTY	UNIT	SUB/CONT	SUBTOTAL	PERCENT FEDERAL	SUBTOTAL	AMOUNT ALLOWED
Plant & Crusher Area—25.5 Acres							
Apply 12 Inches Soil	41,080.0	CY		\$1.25	\$51,350		
Seed Entire Area	25.5	Acre		\$174.00	\$4,437		\$0
				\$55,787	90.00%	\$50,208	
Haul Roads—40 Acres							
Scarify	192,889.0	SY		\$0.20	\$38,578		
Contour	64,296.0	CY		\$1.25	\$80,370		
Apply 12 Inches Soil	67,511.0	CY		\$1.25	\$84,389		
Seed Entire Area	40.0	Acre		\$174.00	\$6,960		
				\$210,297	64.00%	\$134,590	\$80,000
Power Line Corridor—64 Acre							
Power Co. Requested Power Line	64.0	Acre		\$0.00	\$0	70.00%	\$0
Remain Open							
Reseed Soil Stockpile Areas—40 Acres							
Reseed 40 Acres	40.0	Acre		\$174.00	\$6,960	46.00%	\$3,202
							\$3,202
Fences&Berms Around Open Pits							
Fence Around Sentinel Pit 1	5,620.0	LF		\$3.02	\$16,972	100.00%	\$16,972
Fence Around Sentinel Pit 2	2,140.0	LF		\$3.02	\$6,463	100.00%	\$6,463
Fence Around Centennial Pit	8,980.0	LF		\$3.02	\$27,120	77.00%	\$20,882
Fence Around GTO Pit	7,410.0	LF		\$3.02	\$22,378	0.00%	\$0
Cost of Berms not Shown							
Surface Drainage Diversion Ditches							
Leach Pad Area	7,473.0	CY		\$1.25	\$9,341	21.00%	\$1,982
Plant Area	1,595.0	CY		\$1.25	\$1,994	90.00%	\$1,794
Crusher Area	1,810.0	CY		\$1.25	\$2,263	90.00%	\$2,036
Dump Areas	13,868.0	CY		\$1.25	\$17,085	57.00%	\$9,738
					Subtotal	\$247,848	

DRAFT

DESCRIPTION	QTY	UNIT	SUB/CONT	SUBTOTAL	PERCENT FEDERAL	SUBTOTAL	AMOUNT ALLOWED
Direct Costs							
Mobilization and Demobilization	1.0	Lot		\$35,000	100.00%	\$35,000	\$35,000
Leach Pad and Waste Dumps	1.0	Lot		\$1,804,043	100.00%	\$1,804,043	\$1,804,043
Misc. Surface Areas	1.0	Lot		\$247,848	100.00%	\$247,848	\$247,848
Total Direct Cost							\$1,886,891
Indirect Cost							
Plant Dismantling	1.0	Lot		\$450,000	100.00%	\$450,000	\$450,000
Engineering (5% of Total Direct Cost)	1.0	Lot		\$94,345	100.00%	\$94,345	\$94,345
Owner's Cost	1.0	Lot		\$124,468	100.00%	\$124,468	\$124,468
Construction Management	1.0	Lot		\$124,468	100.00%	\$124,468	\$124,468
SC Administrative Fee (18%)	1.0	Lot		\$339,640	100.00%	\$339,640	\$339,640
Total Indirect Cost							\$1,132,921
Total Allowable Cost							\$3,019,812
Inflation Adjusted 5 years @2.58							\$3,428,984

Estimate Using Rounding Rules and Caps

Used Actual Cost				
Waste Dump A--190 Acres	\$289,171			\$289,200
Waste Dump B--94 Acres	\$0			\$0
Waste Dump C--120 Acres	\$332,581			\$332,600
Leach Pad--120 Acres	\$982,291			\$982,300
Pond Area--11 Acres	\$0			\$0
Plant and Crusher Area--25.5 Acres	\$50,208			\$50,200
Fences and Berms	\$44,317			\$44,300
Surface Drainage Diversion Ditches				
Leach Area	\$1,962			\$2,000
Plant Area	\$1,794			\$1,800
Cusher Area	\$2,036			\$2,000
Dump Area	\$9,738			\$9,700
Acre Limitation of \$2000				
Haul Roads--40 Acres	\$134,590	\$3,365	\$80,000	\$80,000
Power Line Corridor--64 Acres	\$0	\$0	\$0	\$0
Reseed Soil stockpile Area--18 Acres	\$3,202	\$178	\$3,202	\$3,200
Direct Cost				
Mobilization & Demobilization	\$35,000			\$35,000
Leach Pad & Waste Dumps	\$1,604,043			\$1,604,100
Misc. Surface Areas	\$247,848			\$247,800
Total of Direct Cost	\$1,886,891			\$1,886,900
Indirect Cost				
Plant Dismantling	\$450,000			\$450,000
Engineering 5% of Total Direct Cost	\$94,345			\$94,300
Owners Cost	\$124,468			\$124,500
Construction Cost	\$124,468			\$124,500
SC Administrative Fee (18%)	\$339,640			\$339,600
Total Direct Cost	\$1,132,921			\$1,132,900
Total Allowable Costs				\$3,019,800
Inflation Adjusted 5 yr. @ 2.58%				\$3,429,981
Total Costs Rounded				\$3,430,000

(DWQ)	DOGM (Summo Final proposal)	DEIS
12" soil	12" soil	12" soil
24" crushed rx.	12" crushed ls.	48" crushed rx.
12" clay	12" clay	
leached ore	leached ore	leached ore

Uran, selen, arsenic + molyb (pit lake chemistry)
 (gamma alpha beta) is a concern

SW permit conditions:

conceptual closure plan due before Summo can begin (pond or pad construction) mine schedule, cap design, etc.
 proposed final closure plan due 180 days prior to end of 5yr. permit term. (and BAT monitoring plan)

^(initial)

Storm Water permits requirements:

requires Poll Prev. Plan (not required to be submitted up front)
 - haven't applied for yet by Summo (once applied for, they're covered) ??

DCAM Received from SUMMO
Jan 3rd

M/037/088

FILENAME: [SUM]VRC2.XL[V]RECLAIM 1		REV 4		THE WINTERS CO		TUCSON, ARIZONA		CAPITAL COST ESTIMATE		10:45 AM		
PROJECT: SUMMO CORP., LISBON VALLEY COPPER		DESCRIPTION: RECLAMATION COSTS		DATE: 03-Jan-97		LABOR HR PER UNIT		UNIT COSTS		EXTENDED COSTS		
DESCRIPTION		QTY	UNIT	UNIT MATL	#REF!	RENTAL EQUIPMENT	SUB/CONT	MATERIAL	LABOR	RENTAL	SUBTOTAL	TOTAL
1	RECLAMATION OF WASTE DUMPS											
2	WASTE DUMP "A"--190 ACRES											
3	AREA OF TOP	456,444	SY								91,289	
4	AREA OF SLOPE	462,680	SY								190,185	
5	SCARIFY TOP (FLAT) AREA	456,444	SY				0.20				192,783	
6	12 INCHES SOIL ON TOP OF DUMP	152,148	CY				1.25				192,783	
7	12 INCHES SOIL ON SLOPE	154,227	CY				1.25				33,088	
8	SEED ENTIRE SURFACE	190	ACRE				174					507,346
9	TOTAL--WASTE DUMP "A" RECLAMATION											
10												
11	WASTE DUMP "B"--94 ACRES											
12	AREA OF TOP	197,222	SY									
13	AREA OF SLOPE	258,240	SY									
14	SCARIFY TOP (FLAT) AREA	197,222	SY				0.20				39,444	
15	12 INCHES SOIL ON TOP OF DUMP	65,741	CY				1.25				82,176	
16	12 INCHES SOIL ON SLOPE	86,080	CY				1.25				107,600	
17	SEED ENTIRE SURFACE	94	ACRE				174				16,397	
18	TOTAL--WASTE DUMP "B" RECLAMATION											245,617
19												
20												
21	WASTE DUMP "C"--120 ACRES											
22	AREA OF TOP	344,222	SY									
23	AREA OF SLOPE	238,633	SY									
24	SCARIFY TOP (FLAT) AREA	344,222	SY				0.20				68,844	
25	12 INCHES SOIL ON TOP OF DUMP	114,741	CY				1.25				143,426	
26	12 INCHES SOIL ON SLOPE	79,544	CY				1.25				99,430	
27	SEED ENTIRE SURFACE	120	ACRE				174				20,983	
28	TOTAL--WASTE DUMP "C" RECLAMATION											332,684
29												
30	LEACH PAD--254 ACRES											
31	RINSE HEAP LEACH AREA 1 YEAR	1	YR				20,095				20,095	
32	AREA OF TOP	788,556	SY									
33	AREA OF SLOPE	441,653	SY									
34	12" CLAY CAP ON TOP	262,852	CY									
35	12" CLAY CAP ON SLOPE	147,218	CY									
36	12" CRUSHED ROCK ON TOP	262,852	CY									
37	12" CRUSHED ROCK ON SLOPE	147,218	CY									
38	12 INCHES SOIL ON TOP	262,852	CY				2.50				657,130	
39	12 INCHES SOIL ON SLOPE	147,218	CY				2.50				368,044	
40	SEED ENTIRE SURFACE	254	ACRE				174				44,288	
41	TOTAL--LEACH PAD RECLAMATION											2,627,318
42												
43												
44												
45												
46												
47												
48												
49	TOTAL											\$3,712,960
50	PROFIT											\$3,712,960
51	TOTAL INCLUDING PROFIT											\$3,712,960

(Limestone?)

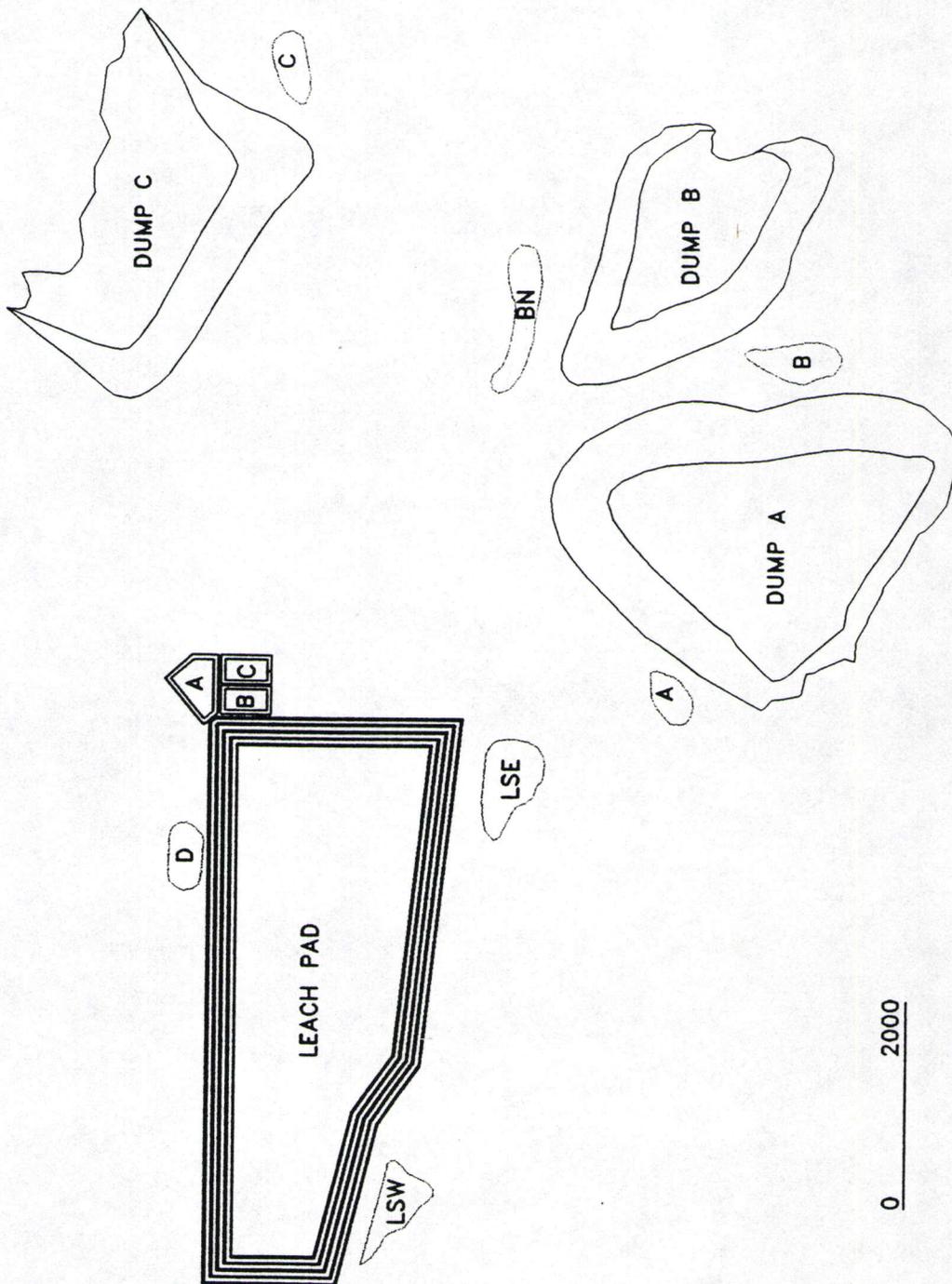
THE WINTERS COMPANY
TUCSON, ARIZONA

SUMMO MINERALS
LISBON VALLEY COPPER PROJECT

ESTIMATED AREA
CALCULATIONS
REVISION 2

PLOT DATE 12/18/94
DRAWN BY E. CORONA

COMPLED BY
PROJECT NUMBER



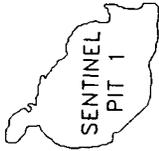
0 2000



SUMMO MINERALS
ESTIMATED AREA CALCULATIONS
Revision 2

AREA	SURFACE AREA OF OBJECT (AUTOCAD) (SQ FT)	PLAN SURFACE AREA OF SIDE SLOPES (SQ FT)	SLOPE AREA FACTOR	ESTIMATED TRUE SLOPED AREA (SQ FT)	TOTAL RECLAIMABLE SURFACE (SQ FT)	DEPTH OF TOPSOIL COVER (FT)	TOTAL TOPSOIL NEEDED (CU FT)	TOTAL TOPSOIL NEEDED (CU YDS)
WASTE DUMP								
A	4,108,000	3,870,000	1.076	4,164,000	8,272,000	1	8,272,000	306,000
B	1,775,000	2,160,000	1.076	2,324,000	4,099,000	1	4,099,000	152,000
C	3,098,000	1,996,000	1.076	2,148,000	5,246,000	1	5,246,000	194,000
LEACH PAD	7,097,000	3,549,000	1.12	3,975,000	11,072,000	1	11,072,000	410,000
POND	BASE AREA							
A	222,186				178,000	1	178,000	7,000
B	131,000				97,000	1	97,000	4,000
C	131,000				97,000	1	97,000	4,000
TOPSOIL PILES	FOOT AREA							
A	146,000				146,000	1	146,000	5,000
B	252,000				252,000	1	252,000	9,000
BN	322,000				322,000	1	322,000	12,000
LSE	367,000				367,000	1	367,000	14,000
LSW	278,000				278,000	1	278,000	10,000
C	180,000				180,000	1	180,000	7,000
D	189,000				189,000	1	189,000	7,000
TOTAL	18,107,186	11,575,000		12,611,000	30,795,000		30,795,000	1,141,000

SENTINEL PIT 1:
PERIMETER: 5621.3 FT
AREA: 1,254,667.8 FT

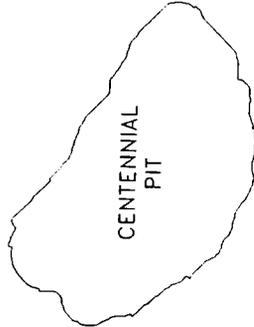


SENTINEL
PIT 1



SENTINEL
PIT 2

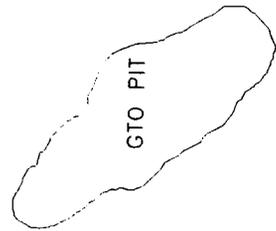
SENTINEL PIT 2:
PERIMETER: 2142.8 FT
AREA: 274,973.6 FT



CENTENNIAL
PIT

CENTENNIAL PIT:
PERIMETER: 8980.1 FT
AREA: 4,660,682.4 FT

2000 FT



GTO PIT

GTO PIT:
PERIMETER: 7413.3 FT
AREA: 2,604,992.5 FT

THE WINTERS COMPANY
TUCSON, ARIZONA

SUMMO MINERALS
LISBON VALLEY PROJECT

PIT PERIMETERS

PLOT DATE 12/17/96 COMPILED BY

DRAWN BY K. OCHOA FIGURE NUMBER

Remaining Bonding Issues:

500ft (LV hole) @ 4" dia.
 1200ft (pit wells) @ 6" dia.
 Arsenic + Selenium (at least in environment) may be cause for concern (if present)

- (1) plugging of wells (pits + process area wells) & decontamination
 1000' dia. 94 MW 7 (ach) exist
- (2) leach cap design change (12"/24"/12" clay) # of wells at end of mining (at end of mining)
- (3) residual leach pad rinse water disposal methodology? evaporate it or what? (if present)
- (4) costs for rinsing heap (2 pore volumes over @ 50% total pad area?)
 * How are they going to sequence the rinsing? we'll guess estimate for 2 yrs now
- (5) monitoring costs @ \$500/sample for all wells left at closure for 5 yrs (min) @ 11 wells x 2/yr. x 5 yrs. x \$500/sample = \$55,000
- (6) residual sludge material in process ponds (reported if how much + how disposed of? Assumption of costs for same?)
 dump or just deep it for now (Tony not comfortable with it.)

Summo/saint agency
 meeting necessary?
 w/Summo
 list of additional requirements

Centennial
 Sentinel # 1
 ETO

} at least 2 each Navajo monitoring wells

* BLM may require in FES because it seems prudent at this point in time due to uncertainty of possible impacts to Navajo
 Pit hole monitoring also will likely be required.